Title (en)

METHOD AND APPARATUS FOR PREVENTING ELECTRICITY METER FAILURE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VERHINDERUNG DES AUSFALLS EINES STROMZÄHLERS

Title (fr)

PROCÉDÉ ET APPAREIL POUR EMPÊCHER UNE DÉFAILLANCE DE COMPTEUR D'ÉLECTRICITÉ

Publication

EP 2873084 A1 20150520 (EN)

Application

EP 13839052 A 20130116

Priority

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Abstract (en)

[origin: US2014077821A1] A method and apparatus that monitors and controls the operation of an electricity meter and prevents a failure of and/or damage to the electricity meter. A potential failure condition of an electrical connection between an electricity meter and a meter socket in an electrical line that provides power from a power supply to an electrical load through the electricity meter, is detected. A correction time may be determined based on a temperature in the vicinity of the electrical connection and a current through the electrical connection. The correction time indicates an amount of time that is available before a predicted failure of the electrical connection will occur. The method determines whether the electricity meter is in an imminent failure condition based on the correction time or the information used to detect the potential failure condition of the electrical connection. The method may provide either, or both, notification of the imminent failure condition and disconnection of power to the electrical load by operating a disconnection switch within the electricity meter when it is determined the electricity meter is in the imminent failure condition.

IPC 8 full level

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